

★TMNI- Q56 1999-453525/38 ★JP 11190326-A
Crank stroke variable mechanism for e.g. plunger pump — has axis of rotation and crankpin interval which are adjusted by changing press-fitting position of shaft spline teeth relative to spline hole, and by changing crank arm angular position

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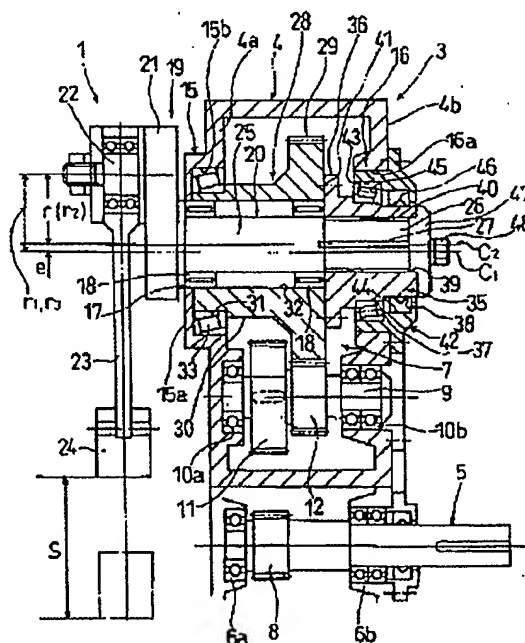
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NOVELTY - The axis of rotation and crankpin interval are adjusted by changing the press-fitting position of the spline teeth (27) of a castellated shaft (26) relative to the spline hole (39) of a positioning coupling (35), and by changing the angular position of a crank arm (21). The positioning coupling is press-fitted into the bearing recess of a bearing housing (42). **DETAILED DESCRIPTION** - A driving wheel is supported to the press-fitting recess (15b) of a protruding bearing section (15) that is provided with a bearing hole (17) which supports the frame of a journal shaft.

Use: For e.g. plunger pump.

Advantage: Allows adjusting amount of stroke to within predetermined range. Simple configuration. Allows adjusting radius of crank stroke. **DESCRIPTION OF DRAWING(S)** - The figure shows the cross-sectional view of the crank stroke variable mechanism. (15) Protruding bearing section; (15b) Press-fitting recess; (17) Bearing hole; (21) Crank arm; (26) Castellated shaft; (27) Spline teeth; (35) Positioning coupling; (39) Spline hole; (42) Bearing housing. (6pp Dwg.No.1/3)

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